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(54) STEROID SULPHATASE INHIBITORS

Mar. 19, 1996 (GB) 9605725.2
Feb. 16, 1996 (GB) 9603325.3
Dec. 5, 1996 (GB) 9625334.9(76) Inventors: Michael John Reed, London (GB);
Barry Victor Potter, Avon (GB)

Correspondence Address:

FROMMER LAWRENCE & HAUG
745 FIFTH AVENUE- 10TH FL.
NEW YORK, NY 10151-(US)

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Related U.S. Application Data

(57) ABSTRACT

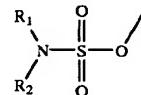
(60) Division of application No. 09/579,163, filed on May 25, 2000, which is a division of application No. 09/238,345, filed on Jan. 27, 1999, now Pat. No. 6,187,766, which is a division of application No. 09/111,927, filed on Jul. 8, 1998, now Pat. No. 6,011,024, which is a continuation-in-part of application No. 08/458,352, filed on Jun. 2, 1995, now Pat. No. 5,830,886, which is a division of application No. 08/196,192, filed on Dec. 27, 1994, now Pat. No. 5,616,574, filed as 371 of international application No. PCT/GB92/01587, filed on Aug. 28, 1992 said application number is a continuation-in-part of application No. PCT/GB97/00600, filed on Mar. 4, 1997, and which is a continuation-in-part of application No. PCT/GB97/004444, filed on Feb. 17, 1997, and which is a continuation-in-part of application No. PCT/GB97/03352, filed on Dec. 4, 1997.

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A method of inhibiting steroid sulphatase activity in a subject in need of same is described.

The method comprises administering to said subject a steroid sulphatase inhibiting amount of a ring system compound; which ring system compound comprises a ring to which is attached a sulphamate group of the formula



wherein each of R₁ and R₂ is independently selected from H, alkyl, alkenyl, cycloalkyl and aryl, or together represent alkylene optionally containing one or more hetero atoms or is groups in the alkylene chain; and wherein said compound is an inhibitor of an enzyme having steroid sulphatase activity (E.C.3.1.6.2); and if the sulphamate group of said compound is replaced with a sulphate group to form a sulphate compound and incubated with a steroid sulphatase enzyme (E.C.3.1.6.2) at a pH 7.4 and 37° C. it would provide a K_m value of less than 50 μM.

